

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the above-identified application:

Listing of Claims

1. (Currently Amended) A wound dressing comprising:
an apertured liquid permeable substrate; and
an absorbent, nonadherent polymer composition coated on or impregnated in the substrate;
wherein in the areas where the composition is in contact with the substrate, the wound dressing includes substrate apertures that are unobstructed by the polymer composition; and
wherein the absorbent, nonadherent polymer composition comprises:
a hydrophobic organic polymer matrix;
1 wt-% to 60 wt-% hydrophilic organic microparticles, which when in a nonhydrated form have an average particle size of 10 microns or less; and
mineral oil;
wherein the polymer matrix, microparticles, and mineral oil are present in the polymer composition in an amount effective to render the composition sufficiently nonadherent such that when coated on a substrate the nonadherent polymer composition displays a 180° peel strength from stainless steel of less than 1 N/cm.
2. (Original) The wound dressing of claim 1 wherein the hydrophobic organic polymer matrix comprises a styrene-isoprene-styrene copolymer, a styrene-butadiene-styrene copolymer, or mixtures thereof.
- 3-4. (Cancelled)

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5. (Previously Presented) The wound dressing of claim 4 wherein the microparticles when in a nonhydrated form have an average particle size of 1 micron or less.
6. (Previously Presented) The wound dressing of claim 5 wherein the microparticles when in a nonhydrated form have an average particle size of 0.5 micron or less.
7. (Original) The wound dressing of claim 1 wherein the apertured liquid permeable substrate comprises 1 to 225 apertures per square centimeter.
8. (Original) The wound dressing of claim 1 wherein the apertured liquid permeable substrate comprises apertures having an average opening size of 0.1 millimeter to 0.5 centimeter.
9. (Original) The wound dressing of claim 1 wherein the microparticles comprise an amine-containing organic polymer.
10. (Original) The wound dressing of claim 9 wherein the amine-containing organic polymer microparticles comprise a quaternary ammonium salt of an organic polymer.
11. (Original) The wound dressing of claim 10 wherein the microparticles comprise a cationic homopolymer of the methyl chloride quaternary salt of 2-(dimethylamino)ethyl methacrylate.
12. (Original) The wound dressing of claim 1 wherein the microparticles comprise a copolymer of sodium acrylate and acrylic acid.
13. (Cancelled)

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14. (Previously Presented) The wound dressing of claim 1 wherein the absorbent, nonadherent polymer composition further comprises a bioactive agent.
15. (Original) The wound dressing of claim 14 wherein the bioactive agent is an antimicrobial agent.
16. (Previously Presented) The wound dressing of claim 1 wherein the polymer composition further comprises one or more additional additives.
17. (Original) The wound dressing of claim 1 wherein the hydrophobic organic polymer matrix comprises a mixture of two or more polymers.
18. (Cancelled)
19. (Currently Amended) A wound dressing comprising:
 - an apertured liquid permeable substrate; and
 - an absorbent, nonadherent polymer composition coated on or impregnated in the substrate;wherein in the areas where the composition is in contact with the substrate, the wound dressing includes substrate apertures that are unobstructed by the polymer composition; and
 - wherein the absorbent, nonadherent polymer composition comprises:
 - a hydrophobic organic polymer matrix comprising a styrene-isoprene-styrene copolymer, a styrene-butadiene-styrene copolymer, or mixtures thereof;
 - 1 wt-% to 60 wt-% hydrophilic microparticles comprising an amine-containing organic polymer, wherein when the microparticles are in a nonhydrated form they have an average particle size of 10 microns or less; and
 - mineral oil;

wherein the polymer matrix, microparticles, and mineral oil are present in the polymer composition in an amount effective to render the composition sufficiently nonadherent such that when coated on a substrate the nonadherent polymer composition displays a 180° peel strength from stainless steel of less than 1 N/cm.

20. (Currently Amended) A wound dressing comprising:

an apertured liquid permeable substrate; and

an absorbent, nonadherent polymer composition coated on or impregnated in the substrate;

wherein in the areas where the composition is in contact with the substrate, the wound dressing includes substrate apertures that are unobstructed by the polymer composition; and

wherein the absorbent, nonadherent polymer composition comprises:

a hydrophobic organic polymer matrix comprising a styrene-isoprene-styrene copolymer, a styrene-butadiene-styrene copolymer, or mixtures thereof;

1 wt-% to 60 wt-% hydrophilic microparticles comprising a sodium polyacrylate copolymer, wherein when the microparticles are in a nonhydrated form they have an average particle size of 10 microns or less; and

mineral oil;

wherein the polymer matrix, microparticles, and mineral oil are present in the polymer composition in an amount effective to render the composition sufficiently nonadherent such that when coated on a substrate the nonadherent polymer composition displays a 180° peel strength from stainless steel of less than 1 N/cm.

21. (Original) A method of treating a wound, the method comprising applying the wound dressing of claim 1 to the wound.

22. (Original) A method of treating a wound, the method comprising applying the wound dressing of claim 19 to the wound.

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23. (Original) A method of treating a wound, the method comprising applying the wound dressing of claim 20 to the wound.

24. (Previously Presented) The wound dressing of claim 1 wherein the hydrophobic organic polymer matrix comprises a polyisobutylene, polyethylene-propylene rubber, polyethylene-propylene diene-modified rubber, polyisoprene, styrene-isoprene-styrene, styrene-butadiene-styrene, styrene-ethylene-propylene-styrene, styrene-ethylene-butylene-styrene, or combinations thereof.

25. (Previously Presented) The wound dressing of claim 24 wherein the hydrophobic organic polymer matrix comprises styrene-ethylene-butylene-styrene.

26. (Previously Presented) The wound dressing of any of claims 1, 19, or 20 wherein the wound dressing is swollen.

27. (Previously Presented) A method of treating a wound, the method comprising applying the wound dressing of claim 26 to a wound.

28. (Previously Presented) A method of treating a wound, the method comprising:
applying the wound dressing of any of claims 1, 19, or 20 to the wound; and
swelling the wound dressing.

29-30. (Cancelled)